

ABSTRACT OF THE DISCLOSURE

Monolithic circuit chips are disclosed which are particularly adapted for use with barcode reading, video and photographic systems. The monolithic circuit chip can include a sensor array, digitizer and decoder. The monolithic circuit chip can alternatively include an imager circuit, radio frequency circuit and memory. The memory can be one of ferroelectric random access memory (FRAM), E²PROM, or Flash memory. The monolithic circuit chip can be formed using complementary metal oxide semiconductor (CMOS) techniques.